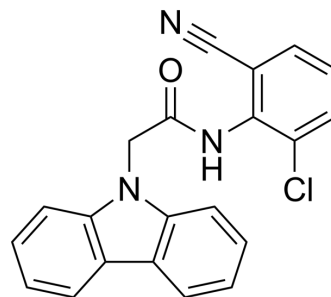


KL044

Cat. No.:	HY-119506		
CAS No.:	1801856-93-8		
Molecular Formula:	C ₂₁ H ₁₄ ClN ₃ O		
Molecular Weight:	359.81		
Target:	Cryptochrome		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (277.92 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.7792 mL	13.8962 mL	27.7924 mL
	5 mM	0.5558 mL	2.7792 mL	5.5585 mL
	10 mM	0.2779 mL	1.3896 mL	2.7792 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.95 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	KL044, a stabilizer of the clock protein cryptochrome (CRY), is a potent chemical probe with a pEC ₅₀ value of 7.32, leading to the extension of the circadian period and repression of Per2 activity ^[1] .
IC₅₀ & Target	pEC ₅₀ : 7.32 ^[1]
In Vitro	KL044 (0-3.7 μM; 8 h) effectively stabilizes the CRY1-LUC fusion protein without affecting the stability of LUC in the HEK293 stable cell line ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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